

Amendments to the Claims

Claim 1 **(Currently Amended)** A controller for driving a pickup of an optical disk drive, the controller comprising:

a lens offset measuring means for measuring the an amount of an offset of a lens from a center of the lens in a the pickup, which the lens offset occurs occurring at a seek of the pickup; and

a seek position setting means for setting a seek position where a seek toward a target position of the pickup is ended, in a pickup driving means, based on the basis of two parameters, the amount of lens offset measured by the lens offset measuring means and the a number of seek tracks to seek.

Claim 2 **(Currently Amended)** A controller ~~for driving a pickup of an optical disk drive~~ as defined in Claim 1, wherein:

the lens offset measuring means also measures the a direction of the lens offset, in addition to the amount of the lens offset from the center of the lens in the pickup, which offset occurs at the seek of the pickup; and

the seek position setting means sets the seek position also uses two parameters, based on the lens offset direction of the lens offset and the a direction of the seek direction, as parameters for determining the seek position.

Claim 3 **(Currently Amended)** A controller for driving a pickup of an optical disk drive ~~as defined in Claim 1,~~ the controller comprising wherein:

a lens offset measuring means for measuring an amount of offset of a lens from a center of the lens in the pickup, the lens offset occurring at a seek of the pickup; and

a seek position setting means for setting a seek position where a seek toward a target position of the pickup is ended based on the amount of lens offset measured by the lens offset measuring means and a number of seek tracks to seek,

wherein the seek position setting means changes a the seek position for a target position according to a rotation speed of a disk.

Claim 4 **(Currently Amended)** A controller for driving a pickup of an optical disk drive, the pickup being movably supported by a feed, the controller comprising:

a lens offset measuring means for measuring ~~the~~ an amount and a direction of an offset of a lens from ~~the~~ a center of the lens in ~~a~~ the pickup at a seek end, and storing the amount and the direction of lens offset; ~~them;~~ and

a seek position setting means for comparing an offset amount and an offset direction just before a seek with the offset amount and the offset direction stored in the lens offset measuring means when ~~the~~ a number of seek tracks of a next seek is smaller than a predetermined value, thereby calculating ~~the~~ a movement of ~~a~~ the feed just before the seek, ~~which feed movably supports the pickup as a calculation result and, based on the basis of the calculation result, setting, in a pickup driving means,~~ a calculation result and, based on the calculation result, setting, in a pickup driving means, a seek position where the seek toward ~~the~~ a target position of the pickup is to be ended.

Claim 5 **(Currently Amended)** A controller ~~for driving a pickup of an optical disk drive~~ as defined in Claim 4, wherein:

the seek position setting means changes the seek position for the target position according to a rotation speed of a disk.

Claim 6 **(Currently Amended)** A controller ~~for driving a pickup of an optical disk drive~~ as defined in Claim 1, wherein:

the seek position setting means sets ~~a~~ the seek position for a target position at least one sector before the target position.

Claim 7 **(Currently Amended)** A controller for driving a pickup of an optical disk drive, the controller comprising:

a lens offset measuring means for measuring ~~the~~ an amount of ~~an~~ offset of a lens from ~~the~~ a center of the lens in ~~a~~ the pickup; and

a seek position setting means for setting, ~~in a pickup driving means,~~ a seek position where a seek toward a target position of the pickup is to be ended ~~as well as~~ and a seek position at kickback so that kickback of ~~for seeking~~ the pickup for seeking ~~in an a~~

~~inverse direction~~ inverse of to a direction of the original seek is performed until ~~the~~ an amount of lens offset at seek end becomes smaller than a predetermined value.

Claim 8 **(Currently Amended)** A controller for driving a pickup of an optical disk drive ~~as defined in Claim 7, the controller comprising wherein:~~

a lens offset measuring means for measuring an amount of offset of a lens from a center of the lens in the pickup; and

a seek position setting means for setting a seek position where a seek toward a target position of the pickup is to be ended and a seek position at kickback so that kickback of the pickup for seeking in a direction inverse to a direction of the original seek is performed until an amount of lens offset at seek end becomes smaller than a predetermined value,

wherein the seek position setting means employs the amount of ~~an~~ offset of ~~a~~ the lens from the center of the lens in the pickup at a point ~~of~~ in time where a read error occurs; ~~as a~~ the predetermined value to be compared with the amount of lens offset at seek end.

Claim 9 **(Currently Amended)** A controller ~~for driving a pickup of an optical disk drive as defined in Claim 8, wherein:~~

the seek position setting means has a limiter for setting a lower limit so that the predetermined value to be compared with the amount of lens offset at seek end does not become smaller than a predetermined minimum value.

Claim 10 **(Currently Amended)** A controller ~~for driving a pickup of an optical disk drive as defined in Claim 4, wherein:~~

the seek position setting means sets ~~a~~ the seek position for ~~a~~ the target position at least one sector before the target position.